

Method of Manufacturing a Diaphragm Backing Plate

Abstract

A method of manufacturing a diaphragm backing plate for use in a brake booster comprising the steps of moving a coil of metal having parallel first and second sides that define a first width to a first station. Applying a stamping force to remove a section from the coil of metal and create a first plate defined by equal and parallel sides that are connected to each other by an arcuate segments each having a radius that is approximately equal to one-half of the width of the coil plus a minimum width of a lip. Moving the plate to a second station and thereafter rolling a peripheral surface thereon to define a uniform diameter for the plate that is approximately equal to the first width of the roll less twice the minimum width for the lip.